

# Recombinant Full Length Human HIST2H3A Protein, GST-tagged

**Cat. No.** HIST2H3A-3601HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | Human HIST2H3A full-length ORF ( NP_001005464.1, 1 a.a. - 136 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 136 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 41.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTVALREIRRYQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                         |                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|                         | KSTELLIRKLFPQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIH<br>AKRVTIMPKDIQLARRIRGERA                                        |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array           |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                      |
| <b>Storage</b>          | Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.                                                     |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                             |
| <b>Gene Name</b>        | HIST2H3A histone cluster 2, H3a [ Homo sapiens ]                                                                            |
| <b>Official Symbol</b>  | HIST2H3A                                                                                                                    |
| <b>Synonyms</b>         | HIST2H3A; histone cluster 2, H3a; histone 2, H3a; histone H3.2; H3/n; H3/o; histone H3/m; histone H3/o; HIST2H3C; HIST2H3D; |
| <b>Gene ID</b>          | 333932                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_001005464                                                                                                                |
| <b>Protein Refseq</b>   | NP_001005464                                                                                                                |
| <b>UniProt ID</b>       | Q71DI3                                                                                                                      |

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